



**U.S. DEPARTMENT OF ENERGY
WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION**

1. PROJECT TITLE/PARTICIPANT Environmental Management/Bechtel Jacobs Company LLC		2. DATE 01/30/2003	3. IDENTIFICATION NUMBER DE-AC05-98OR22700
4. WBS ELEMENT CODE 1.12.05.03.02.01		5. WBS ELEMENT TITLE PORTS RCRA-LLW Waste	
6. INDEX LINE NO.	7. REVISION NO. AND AUTHORIZATION N/A		8. DATE N/A
9. APPROVED CHANGES N/A			
10. SYSTEM DESIGN DESCRIPTION			11. BUDGET AND REPORTING NUMBER
12. ELEMENT TASK DESCRIPTION WBS GRAPHIC See attached. INTRODUCTION During the Cold War, the Portsmouth Gaseous Diffusion Plant (PORTS) was constructed to enrich uranium in support of both government and private sector programs. The plant is currently in Cold Standby under a lease agreement with the United States Enrichment Corporation (USEC) which produced Low Enriched Uranium for commercial applications. Waste Management will be managing "legacy waste" (generated prior to FY03) streams for characterization, treatment, storage, and disposal in compliance with DOE Orders. In addition as a result of environmental releases from past production activities, and environmental restoration projects conducted by the Portsmouth Remedial Action Project in the period between FY94-FY99, these waste streams were received for characterization, treatment, storage, and disposal by Waste Management. All of these activities are accomplished in compliance with the RCRA Part B Permit for storage of hazardous waste. Mixed waste is treated and/or disposed in accordance with the Ohio EPA approved Site Treatment Plan (STP) which is a condition of the storage permit. This LCB will accomplish the treatment, storage, and disposal of DOE RCRA mixed waste in accordance with regulatory requirements. RCRA mixed waste is RCRA waste, which is co-contaminated with low levels of radionuclides (RCRA-LLW). LOGIC RELATIONSHIPS This subproject only contains hard intra-subproject ties between activities and does not have any hard predecessor or successor relationships with other level six WBS elements; however, activities which track Enforceable Agreement Milestones per the Ports Site Treatment Plan have soft ties with predecessor and successor relationships between level six WBS elements. These soft relationships can and do have start-to-start and finish-to-start relationships but all EA STP Milestone activities have priority as to what finish dates come first. SCOPE DESCRIPTION PERFORMANCE METRICS/INDICATORS Treat 2,796 Cuft by 09/30/2003 Dispose 2,796 Cuft by 09/30/2003 PAST AND FUTURE ACCOMPLISHMENTS PAST ACCOMPLISHMENT PRIOR TO FY 2003: Completed characterization of eleven RCRA low-level waste streams (FY01) Completed treatment one RCRA low-level waste streams (FY01) Completed disposition of three RCRA low-level waste streams (FY01) Completed characterization of these thirteen RCRA low-level waste streams (FY02) Complete treatment of thirteen RCRA low-level waste streams (FY02) Complete disposition of three RCRA low-level waste streams (FY02)			



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12. ELEMENT TASK DESCRIPTION (Continued) FUTURE ACCOMPLISHMENTS CHARACTERIZATION Characterize (3) Streams FY04 Characterize (8) Streams FY05 Characterize (2) Streams FY06 TREATMENT Treatment of (5) Waste Streams (Containers(503) Cuft(2,796.30) FY03 Treatment of (14) Waste Streams (Containers(1,224) Cuft(10,054.78) FY04 Treatment of (36) Waste Streams (Containers(5,131) Cuft(48,157.90) FY05 Treatment of (8) Waste Streams (Containers(234) Cuft(2,044.58) FY06 DISPOSAL AFTER TREATMENT Disposal of (5) Waste Streams (Containers(503) Cuft(2,796.30) FY03 Disposal of (14) Waste Streams (Containers(1,224) Cuft(10,054.78) FY04 Disposal of (36) Waste Streams (Containers(5,131) Cuft(48,157.90) FY05 Disposal of (8) Waste Streams (Containers(234) Cuft(2,044.58) FY06 SCOPE SAFETY AND HEALTH WORK PERFORMANCE It is the core value of Bechtel Jacobs Company that the safety and health of every worker and the public at large, and our environment, are the most important assets we are entrusted to protect. To accomplish this, an Integrated Safety Management System (ISMS), based on DOE's ISMS has been implemented that incorporates the five core functions and is based on the seven guiding principles. The objective of ISMS is to systematically integrate safety and environmental protection into the planning and execution of all work activities. The term safety encompasses Nuclear Safety, Industrial Safety, Industrial Hygiene, Occupational Health, Health Physics, and environmental issues. ISMS requirements flow-down to Bechtel Jacobs Company subcontractors. The Five Core Functions are: (1) Define the scope of work, (2) Analyze hazards, (3) Develop and implement hazard controls, (4) Perform work within controls, and (5) Provide feedback and continuous improvement. The Seven Guiding Principles are (1) Line Management Responsibility for Safety, (2) Clear Roles and Responsibilities, (3) Competence commensurate with responsibility, (4) Balanced Priorities, (5) Identification of Safety Standards and Requirements, (6) Hazard Control Tailored to Work Being Performed, and (7) Operations Authorization. FY 2003 - 2006 Scope (Inventory of Streams, Containers and Volumes attached to end of Scope information) 05.03.02.01.01 RLLW Waste Treatment W002 Vapor Degreasing Sludge (BS) - Transport to a Broad Spectrum subcontractor for treatment. The treated waste will then be shipped to a commercial disposal facility. W004 Light Bulbs (BS) - Transport to a Broad Spectrum subcontractor for treatment. The treated waste will then be shipped to a commercial disposal facility. W005 Metal Turnings - Perform pre-shipment inspection, add absorbent, and transport to a commercial treatment facility for macro-encapsulation, and subsequent disposal. W009 Spent Alkaline Solutions (BS) - Transport to a Broad Spectrum subcontractor for treatment. The treated waste will then			



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12. ELEMENT TASK DESCRIPTION (Continued) W042 Fluorine Generator Sludge - Transport to a Broad Spectrum subcontractor for treatment. The treated waste will then be shipped to a commercial disposal facility. W050 Groundwater and Related Waters - Decant liquids and treat at on-site treatment facilities, then consolidate solids with absorbent, and transport to a commercial disposal facility. W060 Hazardous Waste Unit Closure Waste - Transport to a Broad Spectrum subcontractor for treatment. The treated waste will then be shipped to a commercial disposal facility. W061 Mercury Solids - Transport to a Broad Spectrum subcontractor for treatment. The treated waste will then be shipped to a commercial disposal facility. W065 Solid, Liquid Cleanup of Storage Areas - Transport to a Broad Spectrum subcontractor for treatment. The treated waste will then be shipped to a commercial disposal facility. W045 Waste Oil Filters - Transport to a Broad Spectrum subcontractor for treatment. The treated waste will then be shipped to a commercial disposal facility. W066 Cleaning and Neutralization Tank Residue - Transport to a Broad Spectrum subcontractor for treatment. The treated waste will then be shipped to a commercial disposal facility. W070 Gas Cylinders - Treat on site, and transport the carcasses to a scrap metal recycler. W073 Steam Plant PPE and Debris - Transport to a Broad Spectrum subcontractor for treatment. The treated waste will then be shipped to a commercial disposal facility. W077 Neat TCE - Ship to the ETP TSCA Incinerator. W083 Alumina Trap Material - Establish on-site treatment to accomplish stabilization of metals, verify treatment success through limited post treatment characterization. The waste will then be transported to a commercial disposal facility. W085 Motor Cleaning Solutions Filters - 05.03.02.01.03 RLLW Waste Disposal W027 Incinerator Ash - total of 60 containers. Establish on-site treatment to accomplish stabilization of metals, verify treatment success through limited post treatment characterization. The waste will then be transported to a commercial disposal facility. 05.03.02.01.05 RLLW Waste Characterization W010 Nickel Stripping Solutions - one radiological sample, one physical sample, and one chemical sample W044 Booth Water - one radiological sample, one physical sample, and one chemical sample W082 HEU Waste - eleven radiological samples, three physical samples, and eight chemical samples W075 Waste Slag - one radiological sample, one physical sample, and one chemical sample W076 Cyanide Bearing Solutions - five radiological samples, 3 physical samples, and five chemical samples W033 Batteries - twenty-two radiological samples, 3 physical samples, and eight chemical samples W036 Seal Dismantling Scrap Metal - radiological surveys and non-destructive analysis. W038 PPE and Miscellaneous Debris - 95/95 confidence interval to meet ETP TSCA Incinerator requirements W050 Groundwater and Related Waters - Composite sample for liquid phase, and three radiological samples, 3 physical samples, and three chemical samples for the solid phase. W061 Mercury Solids - eight radiological samples, 3 physical samples, and eight chemical samples W028 W077 Neat TCE - One composite sample analyzed to TSCA Incinerator acceptance requirements All Year Project Scope This Project support scope is estimated and baselined under WBS 05.03.06.01.			



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12. ELEMENT TASK DESCRIPTION (Continued) <p>Project Planning & Support: Provide project level planning, oversight, support, project control, and reporting for all activities within this project. This includes, but is not limited to: Project Management, Subcontract Management, Health & Safety oversight, Quality oversight, Procurement support, support for the Life Cycle Baseline, other out year budget submittals, and the following reports.</p> <p>Monthly Summary Report Midyear Project Status Review Quarterly Project Status Review Quarterly Inventory Reports by 3 weeks prior to the end of the quarter Year-end Project Status Review</p> <p>Treatment: Complete special studies, waste characterizations, repackaging, transportation and treatment/disposal at approved offsite locations for all remaining RCRA-LLW which require treatment prior to disposal.</p> <p>Disposal:</p> <p>Complete waste repackaging, transportation and disposal at approved offsite locations for all remaining RCRA-LLW, which is suitable for immediate disposal without further treatment. (See Estimating Backup Notebook matrix table for container count by waste stream).</p> <p>Inventory Data of 05/16/2002</p> <table border="1"> <thead> <tr> <th>MWIR</th> <th>Sum of Cont Cnt</th> <th>Sum of Vol (ft3)</th> <th>Sum of Wt (kg)</th> <th>Sum of Vol (m3)</th> </tr> </thead> <tbody> <tr><td>W001</td><td>128</td><td>1,302.03</td><td>26,559.11</td><td>36.87</td></tr> <tr><td>W002</td><td>7</td><td>48.77</td><td>884.56</td><td>1.38</td></tr> <tr><td>W004</td><td>17</td><td>295.49</td><td>6,086.36</td><td>8.37</td></tr> <tr><td>W005</td><td>6</td><td>26.05</td><td>347.37</td><td>0.74</td></tr> <tr><td>W006</td><td>33</td><td>179.19</td><td>2,998.72</td><td>5.07</td></tr> <tr><td>W009</td><td>54</td><td>408.86</td><td>10,482.31</td><td>11.58</td></tr> <tr><td>W010</td><td>1</td><td>7.35</td><td>240.86</td><td>0.21</td></tr> <tr><td>W011</td><td>7</td><td>27.08</td><td>704.44</td><td>0.77</td></tr> <tr><td>W015</td><td>17</td><td>648.87</td><td>8,739.49</td><td>18.38</td></tr> <tr><td>W016</td><td>5</td><td>36.74</td><td>430.81</td><td>1.04</td></tr> <tr><td>W017</td><td>109</td><td>1,150.61</td><td>25,093.21</td><td>32.59</td></tr> <tr><td>W018</td><td>265</td><td>2,882.63</td><td>58,602.25</td><td>81.64</td></tr> <tr><td>W019</td><td>88</td><td>594.38</td><td>13,034.68</td><td>16.83</td></tr> <tr><td>W020</td><td>170</td><td>2,373.13</td><td>20,383.87</td><td>67.21</td></tr> <tr><td>W021</td><td>21</td><td>182.38</td><td>3,996.62</td><td>5.16</td></tr> <tr><td>W022</td><td>470</td><td>1,496.89</td><td>30,065.67</td><td>42.39</td></tr> <tr><td>W023</td><td>25</td><td>211.77</td><td>4,503.30</td><td>6.00</td></tr> <tr><td>W024</td><td>16</td><td>145.63</td><td>2,335.59</td><td>4.12</td></tr> <tr><td>W025</td><td>3</td><td>10.02</td><td>73.95</td><td>0.28</td></tr> <tr><td>W026</td><td>201</td><td>1,761.92</td><td>33,992.46</td><td>49.90</td></tr> <tr><td>W027</td><td>101</td><td>562.16</td><td>12,885.21</td><td>15.92</td></tr> </tbody> </table>					MWIR	Sum of Cont Cnt	Sum of Vol (ft3)	Sum of Wt (kg)	Sum of Vol (m3)	W001	128	1,302.03	26,559.11	36.87	W002	7	48.77	884.56	1.38	W004	17	295.49	6,086.36	8.37	W005	6	26.05	347.37	0.74	W006	33	179.19	2,998.72	5.07	W009	54	408.86	10,482.31	11.58	W010	1	7.35	240.86	0.21	W011	7	27.08	704.44	0.77	W015	17	648.87	8,739.49	18.38	W016	5	36.74	430.81	1.04	W017	109	1,150.61	25,093.21	32.59	W018	265	2,882.63	58,602.25	81.64	W019	88	594.38	13,034.68	16.83	W020	170	2,373.13	20,383.87	67.21	W021	21	182.38	3,996.62	5.16	W022	470	1,496.89	30,065.67	42.39	W023	25	211.77	4,503.30	6.00	W024	16	145.63	2,335.59	4.12	W025	3	10.02	73.95	0.28	W026	201	1,761.92	33,992.46	49.90	W027	101	562.16	12,885.21	15.92
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W028	3	2.00	40.42	0.06
W029	1	7.35	81.19	0.21
W030	100	367.97	4,999.67	10.42
W031	45	152.32	1,966.28	4.31
W032	53	458.95	5,840.56	13.00
W033	78	338.70	7,561.98	9.59
W034	4	29.39	578.80	0.83
W035	26	216.05	4,036.12	6.12
W036	3	30.06	575.62	0.85
W037	5	30.06	450.45	0.85
W038	702	12,012.41	169,804.78	340.19
W042	68	559.17	16,604.00	15.84
W043	103	1,026.99	21,325.91	29.08
W044	1	7.35	95.71	0.21
W045	2	8.02	83.42	0.23
W047	87	425.70	5,517.59	12.06
W048	112	278.11	7,425.05	7.88
W050	45	286.99	5,821.31	8.13
W052	1,597	14,130.35	241,061.41	400.17
W053	341	1,341.77	27,687.41	38.00
W055	150	823.83	18,360.05	23.33
W057	92	424.34	10,521.46	12.02
W058	279	10,973.77	239,938.17	310.78
W059	4	33.40	289.81	0.95
W060	1,140	11,113.44	280,692.04	314.73
W061	51	248.83	5,037.42	7.05
W064	31	253.19	6,537.86	7.17
W065	156	1,368.37	16,845.69	38.75
W066	23	225.14	5,154.46	6.38
W068	39	265.90	3,496.40	7.53
W069	307	2,901.87	72,929.83	82.18
W070	1	2.67	13.61	0.08
W071	4	37.41	637.77	1.06
W072	15	107.56	1,312.73	3.05
W073	14	102.88	512.13	2.91
W075	1	7.35	95.26	0.21
W076	8	7.35	164.66	0.21
W077	2	14.70	588.77	0.42
W080	8	28.73	696.73	0.81
W081	8	45.43	404.17	1.29
W082	11	39.71	494.91	1.12
W083	188	1,681.83	37,511.76	47.63
W085	1	7.35	210.02	0.21
W086	271	1,850.31	28,478.73	52.40
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TOTAL	7,924	78,627.03	1,514,922.93	2,226.72

U.S. DEPARTMENT OF ENERGY
WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT Environmental Management/Bechtel Jacobs Company LLC		2. DATE 01/30/2003	3. IDENTIFICATION NUMBER DE-AC05-98OR22700	
4. WBS ELEMENT CODE 1.12.05.03.02.01		5. WBS ELEMENT TITLE PORTS RCRA-LLW Waste		
6. INDEX LINE NO.	7. REVISION NO. AND AUTHORIZATION N/A		8. DATE N/A	
9. APPROVED CHANGES N/A				
10. SYSTEM DESIGN DESCRIPTION			11. BUDGET AND REPORTING NUMBER	
12. ELEMENT TASK DESCRIPTION (Continued)				
<p>1</p> <p>RELEASE SITES Not Applicable</p> <p>REQUIREMENTS/DRIVERS</p> <p>Bechtel Jacobs Company LLC Contract DE-AC05-98OR22700, December 18, 1997 Integrated Safety Management System Description, BJC/OR-87, Revision 1, April 1999 RCRA Part B Permit Administrative Order by Consent Ohio Consent Decree Director's Findings & Orders for Integrated Units Ohio Administrative Code 3745-54 through 3745-55 and 3745-29. Applicable DOE Orders Applicable Executive Orders</p> <p>As applicable, indicate other regulatory-related requirements. CERCLA: N RCRA: Y DNFSB: N DOE Orders: Y AEA: Y/N UMTRCA: Y/N State: Y Other: Y</p> <p>PROJECT SCHEDULE</p> <p>Please see attached project summary schedule, project detail schedule, and Milestone Status Summary Report.</p> <p>EXECUTION YEAR BASELINE</p>				



***** Baseline Scenario: LCB03 PBV PORTS RCRA-LLW WASTE SCHED VERIF *****

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12. ELEMENT TASK DESCRIPTION (Continued) Please see attached Budgeted Cost of Work Scheduled Plan. BASELINE BY YEAR Please see attached Baseline by Year Report			